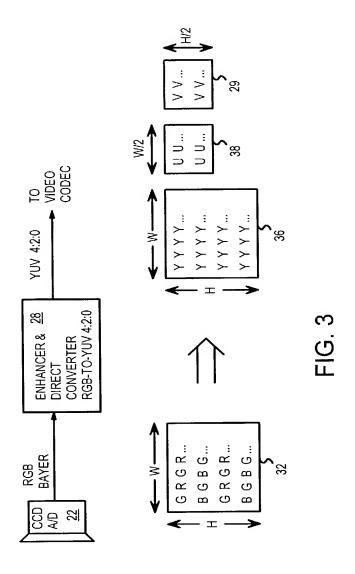
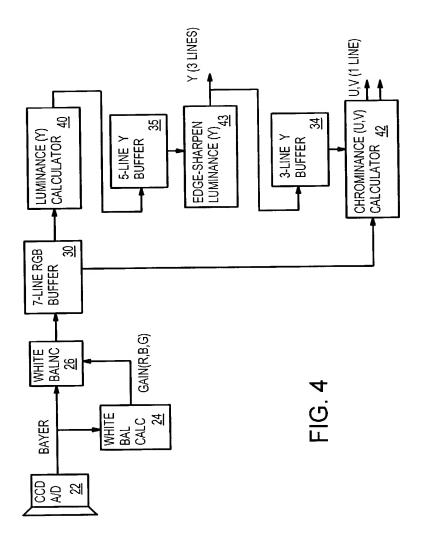
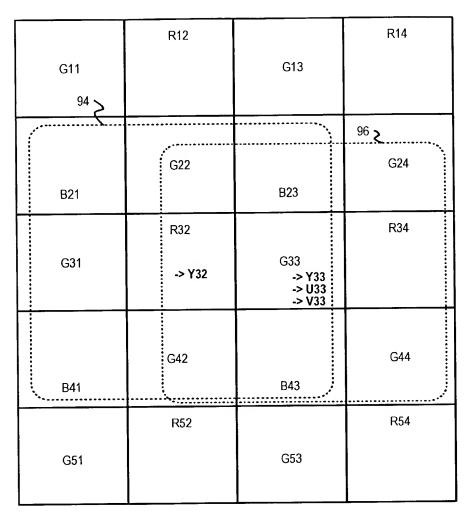


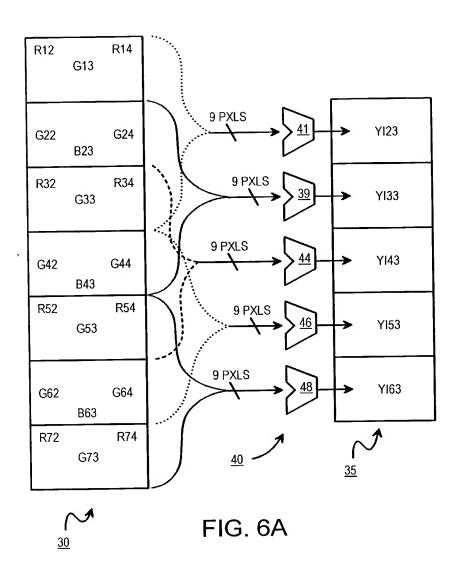
				ſ		70	
RED 1,800	GREEN 2,800	RED 3,800	GREEN 4,800		RED 599,800	GREEN 600,800	
GREEN 1,799	BLUE 2,799	GREEN 3,799	BLUE 4,799		GREEN 599,799	BLUE 600,799	
RED 1,798	GREEN 2,798	RED 3,798	GREEN 4,798		RED 599,798	GREEN 600,798	
GREEN 1,797	BLUE 2,797	GREEN 3,797	BLUE 4,797		GREEN 599,797	BLUE 600,797	
	•					•	
	•	,		• • •		•	^
	•	•				•	. cr
GREEN 1,5	BLUE 2,5	GREEN 3,5	BLUE 4,5		GREEN 599,5	BLUE 600,5	
RED GREEN 1,4 1,5		RED GREEN 3,4 3,5	GREEN BLUE 4,4 4,5		RED GREEN 599,4 599,5	GREEN BLUE 600,4 600,5	ر ا
RED 1,4	z					BLUE GREEN 600,3 600,4	
N RED 1,4	GREEN 2,4	RED 3,4	GREEN 4,4	• • •	RED 599,4	GREEN 600,4	PRIOR ART

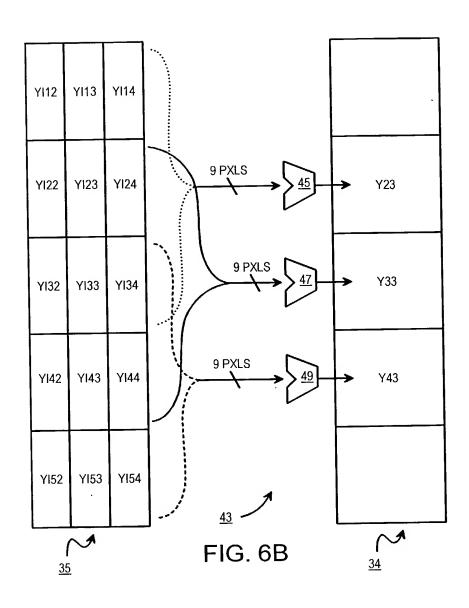


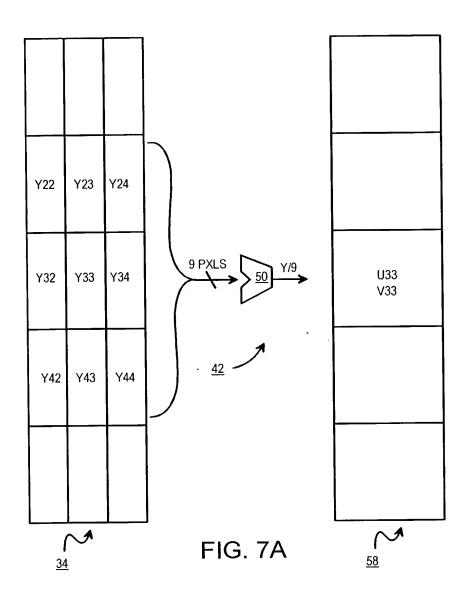


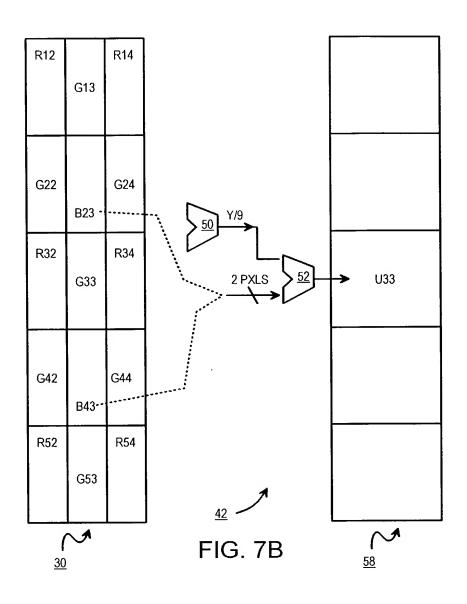


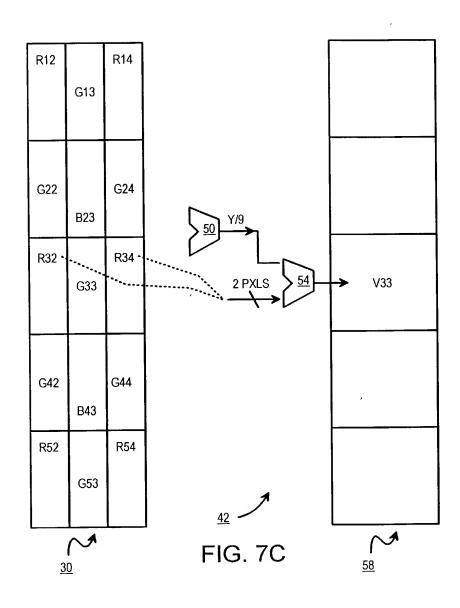
<u>30</u> FIG. 5











INITIAL LUMINANCE COMPUTATION (YI) C = 0.299, D = 0.587, E = 0.144

FIG. 8	FIG. 8C	FIG. 8B	FIG. 8A
COEFF FOR PATTERN 4	COEFF FOR PATTERN 3	COEFF FOR PATTERN 2	COEFF FOR PATTERN 1
D/8 E/2 D/8	E/4 D/4 E/4	C/4 D/4 C/4	D/8 C/2 D/8
C/2 D/2 C/2	D/4 C D/4	D/4 E D/4	E/2 D/2 E/2
D/8 E/2 D/8	E/4 D/4 E/4	C/4 D/4 C/4	D/8 C/2 D/8
PATTERN 4	PATTERN 3	PATTERN 2	PATTERN 1
G B G	B G B	R 8 8	G R G
Я С Я		G B G	B G B
G B G	B G B	አ ወ ጽ	റ മ

## EDGE SHARPENING FOR LUMINANCE

YI YI YI

YI YI YI

**INITIAL Y PATTERN** 

## FIG. 9A

-1/16 -2/16 -1/16

-2/16 12/16 -2/16

-1/16 -2/16 -1/16

COEFF FOR

**EDGE SHARPENED Y** 

FIG. 9B

## **CHROMINANCE COMPUTATION**

G B G R G R G B G PATTERN 4	1/9 1/9 1/9 1/9 1/9 1/9 1/9 1/9 1/9 COEFF FOR INTERMEDIATE SUM (Y/9)
FIG. 10A	FIG. 10B
0 1/2 0	0 0 0
0 0 0	1/2 0 1/2
0 1/2 0	0 0 0
COEFF FOR	COEFF FOR
INTERMEDIATE	INTERMEDIATE
SUM (S_U)	SUM (S_V)

FIG. 10E  $U = 0.493 \times (S_U - Y/9)$  $V = 0.877 \times (S_V - Y/9)$ 

FIG. 10C FIG. 10D

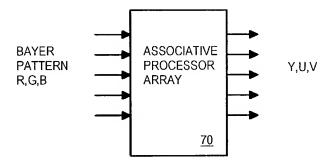


FIG. 11A

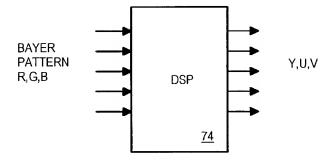


FIG. 11B

## CHROMINANCE COMPUTATION FOR B-G-B PATTERN

	1/9 1/9 1/9		
B G B	1/9 1/9 1/9		
GRG	1/9 1/9 1/9		
B G B PATTERN 3	COEFF FOR INTERMEDIATE SUM (Y/9)		
FIG. 12A	FIG. 12B		
1/4 0 1/4	0 0 0		
0 0 0	0 1 0		
1/4 0 1/4	0 0 0		
COEFF FOR INTERMEDIATE SUM (S_U)	COEFF FOR INTERMEDIATE SUM (S_V)		
FIG. 12C	FIG. 12D		

FIG. 12E 
$$U = 0.493 \times (S_U - Y/9)$$
  
 $V = 0.877 \times (S_V - Y/9)$